



# St. Francis

## College for Women

Begumpet, Hyderabad-500016

(Autonomous & Affiliated to Osmania University)

NAAC Re-accredited with 'A' Grade 4<sup>th</sup> Cycle



सत्यमेव जयते

जैवप्रौद्योगिकी विभाग

DEPARTMENT OF  
**BIOTECHNOLOGY**

### DEPARTMENT OF BOTANY AND BIOTECHNOLOGY

2024-2025

S.NO	DATE	ACTIVITY
1.	6-2-2025	Guest Lecture on Fossils and Flora: Tracing Earth's Vegetative Evolution Through Time
2.	12-2-2025	Field Trip to Department of Plant Science, University of Hyderabad, Gachibowli, Hyderabad
3.	30-7-2024	Field trip to School of Life Sciences, Hyderabad Central University
4.	2-2-2025	One day National seminar- Synergizing Biotechnology with Computational and Statistical Biology for Exploratory Research



## DEPARTMENT OF BOTANY

### 1. Report on Field Trip to “Department of Plant Science, University of Hyderabad”

Gachibowli, Hyderabad

**Date: 12.02.2025**

**Time: 12.30 pm to 4.00 pm**

### Brochure

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SUSTAINABLE  
DEVELOPMENT  
**GOALS**  
SFC supports SDG

**DBT STAR COLLEGE**  
(Under Strengthening Component)

**DEPARTMENT OF BOTANY**  
Organizes a  
Field Trip to

**Department of Plant Science,  
University of Hyderabad**

Gachibowli, Hyderabad

12th February, 2025  
12:30pm to 4:00pm

**Attendees : For B. Sc III A/N (BZC & ANBC) Students**

The Department of Botany organised a field trip to the Department of Plant Sciences, University of Hyderabad for the III-year students of BZC and ANBC. Around 34 students and two faculty members participated.

### Objectives

- To expose students to current research initiatives in the field of plant science
- To provide students the opportunity to explore laboratory facilities, green house and herbal garden.
- To encourage students to pursue higher studies and research pertaining to plants



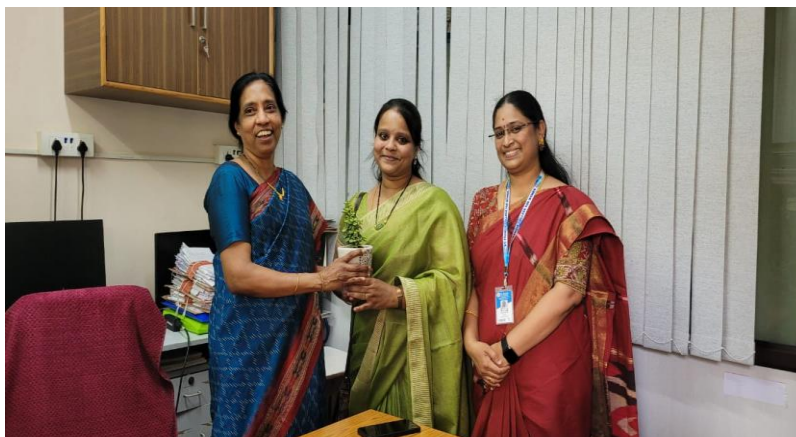
### Outcomes

- The students were delighted to visit the facilities available in the Department and for them it was a great learning experience
- The students got the opportunity to interact with the Research scholars and the faculty members about the ongoing research in the field of plant science

### Relevant Photographs



**School of Life Sciences, Hyderabad Central University**



**Felicitation to Prof. Ragiba Makandar, Dept. of Plant Sciences, School of Life Sciences, HCU**



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**Students visiting various facilities  
in the Plant Sciences Department**


## 2. Report on Guest Lecture on “Fossils and Flora: Tracing Earth’s Vegetative Evolution Through Time”


**Date: 06.02.2025**

**Time: 11.40 am to 12.40 pm in Botany Lab**

**Brochure**

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**DBT STAR COLLEGE**  
(Under Strengthening Component)  
**Department of Botany**  
Organizing a  
Guest Talk on

**“Fossils and Flora: Tracing Earth's  
Vegetative Evolution Through Time”**

**Ms. Kavitha Bhadran**  
M.Sc., PGDESD  
CSIR UGC NET  
Ph. D Research Scholar, Department of Botany  
Osmania University, Hyderabad.

**Audience : B. Sc I A/N (BZC & ANBC) Students**

**February 06 2025**

**11:40 am to 12.40 pm** **Botany Lab**





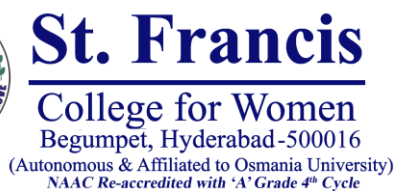
The Department of Botany organized a guest lecture on the topic **“Fossils and Flora: Tracing Earth’s Vegetative Evolution Through Time”**. Around 35 students of I year BZC and ANBC and 2 faculty members participated. The speaker for the event was **Ms. Kavitha Bhadran**, M.Sc., PGDESD, CSIR UCG NET, Ph.D Research scholar, Department of Botany, Osmania University, Hyderabad.

### **Objectives**

- To help students comprehend the significance of fossil study in learning earth’s history
- To learn about the importance of geological time scale and their flora
- To understand how the different groups of plants evolved during the course of time

### **Outcomes**

- Students learned about the significance of fossil study in evolution of plant life
- The students were able to identify the key geological periods and evolution of plant life across different eras.





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### PROJECT LIST

S.NO	ROLL NO	CLASS	NAME	PROJECT TITLE	RESEARCH SUPERVISOR
1.	121322041010	BZC	S Padmini	Phytoremediation potential of <i>Cicer arietinum</i> .L under Chromium stress	Dr. Basanti. Ch
2.	121322041016	BZC	Veera Sriya	Impact of Nickel on growth and Development of <i>Cicer arietinum</i> .L	Dr. Basanti. Ch
3.	121322055016	ANBC	Kotha Harini	Phytochemical screening of selected medicinal plants	Dr. Basanti. Ch
4.	121322055018	ANBC	Naidu Bhuvana Sree Sai Varenny	Bioactive treasures:A study on phytochemical profiling of selected medicianl plants	Dr.S.Revathi
5.	121322055019	ANBC	Padala Sreehitha	Growth dynamics: Comparining Lettuce and Spinach in hydroponic and soil cultivation methods.	Dr.S.Revathi
6.	121322055025	ANBC	Saniya Vaishnav	Soil or Hydroponics: A comparative analysis of growth parameters in Bok choy and Red amaranthus	Dr.S.Revathi



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## DEPARTMENT OF BIOTECHNOLOGY

### 3.Report on Field trip to School of Life Sciences at Hyderabad Central University

**Date:** 30<sup>th</sup> July 2024

**Time:** 09:00am to 4:00pm

#### Brochure:

The brochure is a green and white flyer for a field visit. It features the St. Francis College for Women logo at the top left and the Department of Biotechnology logo at the top right. The main text reads: 'DBT STAR COLLEGE (Under Strengthening Component) DEPARTMENT OF BIOTECHNOLOGY Organizes a Field Visit to SCHOOL OF LIFE SCIENCES UNIVERSITY OF HYDERABAD'. The date '30th July, 2024' and time '9:00am to 4:00pm' are listed at the bottom. A red banner at the bottom states 'Attendees : For B.Sc. Final year Biotechnology Students'. The background shows a modern building.

Under the **DBT STAR COLLEGE** Scheme (Strengthening Component), the Department of Biotechnology organised a field trip to the School of Life Sciences at Hyderabad Central University for final-year BSc Biotechnology students. This field trip involved two staff members and a total of 54 students.





### Objectives:

To assist students

- Acquire knowledge of the applications of PCR, LCMS, fluorescence, laser confocal, gel documentation system, atomic absorption spectrophotometer, circular dichroism spectroscopy, and MALDI-TOF.
- Exploring the cutting-edge facilities, including the plant tissue culture lab, proteomics lab, genomics lab, glasshouse, and biohazard room

### Outcomes

The students will have

- A deeper comprehension of plant tissue culture, molecular biology, and biophysical techniques
- Aspiration towards a promising career in biotechnology

### Pictures





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**4. Report on One day National seminar- “Synergizing Biotechnology with Computational and Statistical Biology for Exploratory Research.”**

**Date:** 12<sup>th</sup> February, 2025

**Time:** 09:30am to 4:00pm

**Brochure:**

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**DBT STAR COLLEGE**  
(Under Strengthening Component)

**DEPARTMENT OF BIOTECHNOLOGY**

Organizes a  
**National Seminar**  
on

**"Synergizing Biotechnology with Computational and Statistical Biology for Exploratory Research"**

(Hybrid Mode)

**FEBRUARY 12, 2025** **9:30 am - 4:00 pm**

Under the **DBT STAR COLLEGE** Scheme (Strengthening Component), the Department of Biotechnology organised a one-day National seminar on “**Synergizing Biotechnology with Computational and Statistical Biology for Exploratory Research**” in Hybrid mode for BSc 2<sup>nd</sup> year Biotechnology students. The session was attended by 138 participants and 4 faculty members.





## Objectives:

To

- Assist students and researchers with valuable insights into integrative scientific inquiry.
- Effectively bridge theoretical knowledge with real-world applications, enhancing participants' research capabilities

## Outcomes

The students will

- Have a deeper understanding of bridging Biology and data: How Data and Computation are transforming Biotechnology Research.
- Gain knowledge in comprehending the role of Bioinformatics in drug discovery, forensics, crop enhancement, importance of programming skills in R, Python, Unix and Biostatistics for biological data analysis
- Inculcate aspiration towards a promising career in Bioinformatics & Biostatistics

## Pictures







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Hyderabad,Telangana,India  
Street 5, Begumpet, Hyderabad, Telangana  
500016, India  
Lat 17.437245, Long 78.461177  
02/12/2025 10:41 AM GMT+05:30  
Note : Captured by GPS Map Camera



Hyderabad,Telangana,India  
Street 5, Begumpet, Hyderabad, Telangana  
500016, India  
Lat 17.437107, Long 78.461040  
02/12/2025 11:39 AM GMT+05:30  
Note : Captured by GPS Map Camera



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S.NO	ROLL NO	CLASS	NAME	PROJECT TITLE	RESEARCH SUPERVISOR
1.	121322050003	BTMC	Anne Alekhya	Morphological Detection And Biochemical Anatomization Of Agrobacterium Tumefaciens From The Soil Sample Of Phaseolus Vulgaris	Dr. Deepa Switha
2.	121322050033	BTMC	R. Ramya Krithi	Microbial Analysis, Detection, And Typification Of Agrobacterium Tumefaciens From Crown Gall Sample Acquired From Azadirachta Indica	Dr. Deepa Switha
3.	121322051023	BTZC	R.Deepika	Etection And Characterisation Of Agrobacterium Tumefaciens Associated With Crown Gall In Azadirachta Indica	Dr. Deepa Switha
4.	121322056030	BTBCC	Sriya Damera	Isolation And Characterisation Of Agrobacterium Tumefaciens Obtained From Soil Sample Of Phaseolus Vulgaris Plant	Dr. Deepa Switha
5.	121322056028	BTBCC	Solipuram Tvisha Reddy	Phytochemical Screening, Quantification And Evaluation Of Antibacterial And	Ms. Shouni Niveditha



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				Antioxidant Properties Of Psidium Guajava.L	
6.	121322056031	BTBCC	T.Likhitanjali	Phytochemical Profiling And Bioactivity Assessment Of Rnr 15048 Variety Of Oryza Sativa (Telangana Sona Rice) Leaf Extract: A Gateway To Drug Discovery	Ms. Shouni Niveditha
7	121322051022	BTZC	Pranali Pawar	Extraction , Characterisation, And Evaluation Of Antimicrobial And Antioxidant Properties Of Secondary Metabolites From Eclipta Prostrata Leaves.	Ms. Shouni Niveditha
8.	121322050001	BTMC	A Mary Sneha	Assessing The Role Of Bioremediation In Heavy Metals Contaminated Soils	Ms. Mini Fernandez
9.	121322050002	BTMC	Anvsl Sarayu	1in-Silico Studies Of Mtnb, Tm14a, Leg2, S10a3 & Ltc4s Proteins Involved In Lung Cancer	Ms. Mini Fernandez
10.	121322050040	BTMC	P.Shravani Shriya	In-Silico Studies Of Mif, Mien1,Naa40,Ralb & Ptges Proteins Involved In Colorectal Cancer	Ms. Mini Fernandez
11.	121322056008	BTBCC	D.Keerthana Goud	In-Silico Studies Of Rbp7, Calml3,C35,Lgalsl & S100-A3 Proteins Involved In Breast Cancer	Ms. Mini Fernandez
12.	121322056010	BTBCC	G. Archana	Exploring Microbial Approaches For The Biorememdiation Of Heavy Metal Contaminated Soils	Ms. Mini Fernandez



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13.	1213220510161	BTZC	Maryam Khanum	Analyzing Physicochemical And Biological Assessment Of Water Quality Of Durgam Cheruvu Lake And Hussain Sagar Lake	Ms. Shruti Joshi
14.	121322051032	BTZC	Syeda Sihaan Qadri	Integrated Analysis Of Physicochemical And Biological Parameters In Water Quality Assessment Of Ibrahim Lake And Mushki Lake	Ms. Shruti Joshi
15.	121322051034	BTZC	Y. Sai Sreeja	Integrative Approaches For Analyzing Physicochemical And Biological Data For Water Quality Monitoring Of Osman Lake And Pragathi Nagar Lake	Ms. Shruti Joshi